50X1-HUM

CLASSIFICATION

CONFIDENTIAL CONFIDENTIAL

CENTRAL INTELLIGENCE AGENCY

INFORMATION FROM

FOREIGN DOCUMENTS OR RADIO BROADCASTS

CD NO.

COUNTRY

USSR

DATE OF

SUBJECT

PUBLISHED

Scientific - Academy of Sciences

INFORMATION

HOW

Monthly periodical

DATE DIST.

WHERE **PUBLISHED**

DATE

Moscow

NO. OF PAGES

PUBLISHED

Jul 1949

SUPPLEMENT TO

LANGUAGE

Pussian

REPORT NO.

THIS IS UNEVALUATED INFORMATION

SOURCE

STATE

Vestnik Akademii Haut SSSR, No 7, 1949.

RESULTS OF SCIENTIFIC RESEARCH OF THE ACADEMY OF SCIENCES ARMENIAN SSR

The work of the Academy of Sciences Armenian SSK in 1948 concerned the solution of a great number of problems connected with actual tasks of the Republic's economy and with 'he over-sil development of Soviet science.

The Sector of Mathematics and Mechanics made real progress in furthering the development of the theory of functions. Due to the perseverance of a group of young mathematicians who are expounding what was at first a very limited doctrine, there is every reason to speak about the emergence of Yers an's own school of mathematics. The same sector is working on problems in the theory of mechanics dealing with the theory of elasticity, and such important problems as the creep of materials, particularly the creep of concrete.

The Institute of Physics has been concentrating on the study of the nature of elementary particles in cosmic rays at various altitudes. A wealth of experimental material has been obtained. This material has furnished a basis for research on the mass spectra of new particles -- varitrons, discovered by the Alikhanov brothers in 1946 - 1947. A number of new cosmic ray processes has been discovered.

The Astrophysical Observatory in Byurakan became active in 1948. Observation projects have developed here which are of great significance. It is necessary that Soviet observatories include in their observations the less brilliant objects, more remote stars and extragalactic nebulae, since the Americans desire to monopolize this field. This year, definite progress was evidenced by the mastery of an instrument designed for observing very weak stars (to the 18th magnitude) and extragalactic nebulae. The Astrophysical Observatory detected in our galaxy the presence of an entirely new class of stellar systems -- so called "stellar societies," the study of which is contributing much to the solution of problems concerning the structure of the galaxy as a whole and the science of the origin and evolution of heavenly bodies.

CONFIDENTIAL

CLASSIFICATION NSPB

CONFIDENTIAL DISTRIBUTION

CONFIN	- 3 '1	ITI	AL.
--------	--------	-----	-----

CONFIDENTIAL

50X1-HUM

The academy's chemists made great progress in 1948, centering their attention on two basic problems closely connected to industrial developments.

Geologists have been surveying the republic's oil potentialities, and though this field is new to Armenia, the results obtained have shown that wide-scale prospecting is marited. A study of the natural resources for the glass industry has revealed that numice-quartz sands present a new raw material.

The main efforts of the Hydroelectric Power Engineering Institute have been devoted to projects connected with the construction of Armenia's largest hydroelectric solution, dynmanges. At present, models of the various construction projects are being built, and it some cases, tests have been completed.

The Institute of Genetics has developed two new types of wheat, "artamat," which is now being grown exclusively throughout the Ararat valley, and "egward," which is being used in foothill regions. New types of grapes have also been developed.

Soil research and test plantings on territory reclaimed from the Sevan prove that the land has definite agricultural possibilities, and work is being conducted towards their realization.

The Microbiological Institute has introduced new bread yeasts which are presently in use at the Yerevan Bread Plant.

- E N D -

- 2 -

CONFIDENTIAL

CONFIDENTIAL